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IET JNL IET Journal or Magazine

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2001 Page(s):i - 1690  
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- 4. **A survey of peer-to-peer storage techniques for distributed file systems**  
Hasan, R.; Anwar, Z.; Yurcik, W.; Brumbaugh, L.; Campbell, R.;  
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- 5. **A secure directory service based on exclusive encryption**  
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- 1. IEEE Std 1364 -2005 IEEE Standard for Verilog Hardware Description Language  
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- 2. Standard for information technology - portable operating system interface (POSIX).  
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- 5. IEEE Std. 802.16-2001 IEEE Standard for Local and Metropolitan area networks Part 16:  
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Relevance scale **1 XML document security based on provisional authorization** Michiharu Kudo, Satoshi Hada November 2000 **Proceedings of the 7th ACM conference on Computer and communications security CCS '00****Publisher:** ACM PressFull text available:  pdf(456.68 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**Keywords:** XML, access control, provisional authorization, security transcoding**2 Protecting information on the Web** Elisa Bertino, Elena Pagani, Gian Paolo Rossi, Pierangela Samarati November 2000 **Communications of the ACM****Publisher:** ACM PressFull text available:  pdf(461.10 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**3 Smart packets: applying active networks to network management** Beverly Schwartz, Alden W. Jackson, W. Timothy Strayer, Wenyi Zhou, R. Dennis Rockwell,

Craig Partridge

February 2000 **ACM Transactions on Computer Systems (TOCS)**, Volume 18 Issue 1**Publisher:** ACM PressFull text available:  pdf(190.33 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This article introduces Smart Packets and describes the smart Packets architecture, the packet formats, the language and its design goals, and security considerations. Smart Packets is an Active Networks project focusing on applying active networks technology to network management and monitoring. Messages in active networks are programs that are executed at nodes on the path to one or more target hosts. Smart Packets programs are written in a tightly encoded, safe language specifically des ...

**Keywords:** active networks**4 Flexible update propagation for weakly consistent replication** Karin Petersen, Mike J. Spreitzer, Douglas B. Terry, Marvin M. Theimer, Alan J. Demers October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth**

**ACM symposium on Operating systems principles SOSP '97, Volume 31 Issue**

5

**Publisher:** ACM PressFull text available:  pdf(2.16 MB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**5 A framework for distributed authorization**

Thomas Y. C. Woo, Simon S. Lam

December 1993 **Proceedings of the 1st ACM conference on Computer and communications security CCS '93****Publisher:** ACM PressFull text available:  pdf(639.02 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**6 Managing update conflicts in Bayou, a weakly connected replicated storage system**D. B. Terry, M. M. Theimer, Karin Petersen, A. J. Demers, M. J. Spreitzer, C. H. Hauser  
December 1995 **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symposium on Operating systems principles SOSP '95, Volume 29**

Issue 5

**Publisher:** ACM PressFull text available:  pdf(1.56 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**7 Early adopters an internet 2 middleware project**

Jay Graham, Jeffrey Cepull

October 2000 **Proceedings of the 28th annual ACM SIGUCCS conference on User services: Building the future SIGUCCS '00****Publisher:** ACM PressFull text available:  pdf(156.42 KB) Additional Information: [full citation](#), [references](#), [index terms](#)**Keywords:** EDUPerson, IMS, LDAP, interoperability, middleware**8 A coherent distributed file cache with directory write-behind**

Timothy Mann, Andrew Birrell, Andy Hisgen, Charles Jerian, Garret Swart

May 1994 **ACM Transactions on Computer Systems (TOCS), Volume 12 Issue 2****Publisher:** ACM PressFull text available:  pdf(3.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Extensive caching is a key feature of the Echo distributed file system. Echo client machines maintain coherent caches of file and directory data and properties, with write-behind (delayed write-back) of all cached information. Echo specifies ordering constraints on this write-behind, enabling applications to store and maintain consistent data structures in the file system even when crashes or network faults prevent some writes from being completed. In this paper we describe ...

**Keywords:** coherence, file caching, write-behind**9 Cryptography and data security**

Dorothy Elizabeth Robling Denning

January 1982 Book

**Publisher:** Addison-Wesley Longman Publishing Co., Inc.Full text available:  pdf(19.47 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**From the Preface (See Front Matter for full Preface)**

Electronic computers have evolved from exiguous experimental enterprises in the 1940s to prolific practical data processing systems in the 1980s. As we have come to rely on these systems to process and store data, we have also come to wonder about their ability to protect valuable data.

Data security is the science and study of methods of protecting data in computer and communication systems from unauthorized disclosure ...

**10 hyperDRIVE: leveraging LDAP to implement RBAC on the Web**

Larry S. Bartz  
November 1997 **Proceedings of the second ACM workshop on Role-based access control RBAC '97**

Publisher: ACM Press

Full text available: [pdf\(630.24 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**11 Access control in federated systems**

Sabrina De Capitani di Vimercati, Pierangela Samarati  
September 1996 **Proceedings of the 1996 workshop on New security paradigms NSPW '96**

Publisher: ACM Press

Full text available: [pdf\(1.45 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)

**12 A taxonomy of computer program security flaws**

Carl E. Landwehr, Alan R. Bull, John P. McDermott, William S. Choi  
September 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 3

Publisher: ACM Press

Full text available: [pdf\(3.81 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)



An organized record of actual flaws can be useful to computer system designers, programmers, analysts, administrators, and users. This survey provides a taxonomy for computer program security flaws, with an Appendix that documents 50 actual security flaws. These flaws have all been described previously in the open literature, but in widely separated places. For those new to the field of computer security, they provide a good introduction to the characteristics of security flaws and how they ...

**Keywords:** error/defect classification, security flaw, taxonomy

**13 Secure virtual enclaves: Supporting coalition use of distributed application technologies**

May 2001 **ACM Transactions on Information and System Security (TISSEC)**, Volume 4 Issue 2

Publisher: ACM Press

Full text available: [pdf\(462.10 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)



The Secure Virtual Enclaves (SVE) collaboration infrastructure allows multiple organizations to share their distributed application objects, while respecting organizational autonomy over local resources. The infrastructure is transparent to applications, which may be accessed via a web server, or may be based on Java or Microsoft's DCOM. The SVE infrastructure is implemented in middleware, with no modifications to COTS operating systems or network protocols. The system enables dynamic updates to ...

**Keywords:** Access control, coalition, collaborative system, group communication,

middleware, security policy

**14 Improving the granularity of access control in Windows NT**

 Michael M. Swift, Peter Brundrett, Cliff Van Dyke, Praerit Garg, Anne Hopkins, Shannon Chan, Mario Goertzel, Gregory Jensenworth

May 2001 **Proceedings of the sixth ACM symposium on Access control models and technologies SACMAT '01**

Publisher: ACM Press

Full text available:  pdf(259.87 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents the access control mechanisms in Windows 2000 that enable fine-grained protection and centralized management. These mechanisms were added during the transition from Windows NT 4.0 to support the Active Directory, a new feature in Windows 2000. We first extended entries in access control lists to allow rights to apply to just a portion of an object. The second extension allows centralized management of object hierarchies by specifying more precisely how access control lists ...

**Keywords:** Windows 2000, access control lists

**15 Remote I/O: fast access to distant storage**

 Ian Foster, David Kahr, Rakesh Krishnaiyer, Jace Mogill

November 1997 **Proceedings of the fifth workshop on I/O in parallel and distributed systems IOPADS '97**

Publisher: ACM Press

Full text available:  pdf(1.51 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**16 Data Security**

 Dorothy E. Denning, Peter J. Denning

September 1979 **ACM Computing Surveys (CSUR)**, Volume 11 Issue 3

Publisher: ACM Press

Full text available:  pdf(1.97 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**17 Supporting relationships in access control using role based access control**

 John Barkley, Konstantin Beznosov, Jinny Uppal

October 1999 **Proceedings of the fourth ACM workshop on Role-based access control RBAC '99**

Publisher: ACM Press

Full text available:  pdf(1.19 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**18 SecureFlow: a secure Web-enabled workflow management system**

 Wei-Kuang Huang, Vijayalakshmi Atluri

October 1999 **Proceedings of the fourth ACM workshop on Role-based access control RBAC '99**

Publisher: ACM Press

Full text available:  pdf(1.32 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**19 Security functions for a file repository**

 Arne Helme, Tage Stabell-Kulø

April 1997 **ACM SIGOPS Operating Systems Review**, Volume 31 Issue 2

**Publisher:** ACM Press

Full text available:  pdf(469.26 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

When personal machines are incorporated into distributed systems a new mixture of threats is exposed. The security effort in the MobyDick project is aimed at understanding how privacy can be protected in this new environment. Our claim is that a two-step process for authentication and authorisation is required, but also sufficient. The research vehicle is a distributed file repository.

**20 Flexible control of downloaded executable content** 

 Trent Jaeger, Atul Prakash, Jochen Liedtke, Nayeem Islam

May 1999 **ACM Transactions on Information and System Security (TISSEC)**, Volume 2  
Issue 2

**Publisher:** ACM Press

Full text available:  pdf(297.79 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We present a security architecture that enables system and application access control requirements to be enforced on applications composed from downloaded executable content. Downloaded executable content consists of messages downloaded from remote hosts that contain executables that run, upon receipt, on the downloading principal's machine. Unless restricted, this content can perform malicious actions, including accessing its downloading principal's private data and sending messages on th ...

**Keywords:** access control models, authentication, authorization mechanisms, collaborative systems, role-based access control

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Antonio Durante, Riccardo Focardi, Roberto Gorrieri  
 October 2000 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,  
 Volume 9 Issue 4

Publisher: ACM Press

 Full text available: [pdf\(291.90 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Security Process Algebra (SPA) is a CCS-like specification language where actions belong to two different levels of confidentiality. It has been used to define several noninterference-like security properties whose verification has been automated by the tool CoSeC. In recent years, a method for analyzing security protocols using SPA and CoSeC has been developed. Even if it has been useful in analyzing small security protocols, this method has shown to be error-prone, as it requires the ...

**Keywords:** automatic verification, cryptographic protocols, noninterference, process algebra, verification tool

### 2 [Paranoid penguin: GPG: the best free crypto you aren't using, part II of II](#)

Mick Bauer  
 October 2001 **Linux Journal**, Volume 2001 Issue 90

Publisher: Specialized Systems Consultants, Inc.

 Full text available: [html\(23.03 KB\)](#) Additional Information: [full citation](#), [index terms](#)

### 3 [Separating key management from file system security](#)

David Mazières, Michael Kaminsky, M. Frans Kaashoek, Emmett Witchel  
 December 1999 **ACM SIGOPS Operating Systems Review, Proceedings of the seventeenth ACM symposium on Operating systems principles SOSP '99**, Volume 33 Issue 5

Publisher: ACM Press

 Full text available: [pdf\(1.77 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

No secure network file system has ever grown to span the Internet. Existing systems all lack adequate key management for security at a global scale. Given the diversity of the Internet, any particular mechanism a file system employs to manage keys will fail to support many types of use. We propose separating key management from file system security, letting the world share a single global file system no matter how individuals

manage keys. We present SFS, a secure file system that avoids internal ...

#### 4 Security enhanced mobile agents

 Vijay Varadharajan

November 2000 **Proceedings of the 7th ACM conference on Computer and communications security CCS '00**

Publisher: ACM Press

Full text available:  pdf(393.46 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** mobile agents, secure agent based application, security model

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